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August 12, 2003

CERTIFIED RETURN RECEIPT
7099 3400 0016 8896 3670

Aaron Hancock
Director of Mining & Transportation
Interpace Industries, Inc.
736 West Harrisville Road
Ogden, Utah 84404

Re: Initial Review of Notice of Intention to Amend Large Mining Operations, Interpace Industries, Inc., Clinton Clay Pit, M/049/006, Utah County, Utah

Dear Mr. Hancock:

The Division has completed our review of your draft Notice of Intention to Commence Large Mining Operations for the Clinton Clay Pit, located in Utah County, Utah, which was received February 14, 2003. After reviewing the information, the Division has the following comments that will need to be addressed before tentative approval may be granted.

The comments are listed below under the applicable Minerals Rule heading. Please format your response in a similar fashion. **Please address only those items requested in the attached technical review. You may send replacement pages of the original mining notice using redline and strikeout text, so we can see what changes have been made. After the notice is determined technically complete and we are prepared to issue final approval, we will ask that you send us two copies of the complete and corrected plan. Upon final approval of the permit, we will return one copy stamped "approved" for your records.** Please provide a response to this review by September 15, 2003.

The Division will suspend further review of the Clinton Clay Pit Notice of Intention until your response to this letter is received. If you have any questions with the attached technical review comments, please contact me, Lynn Kunzler, or any of the Minerals technical staff. If you wish to arrange a meeting to sit down and discuss this review, please contact us at your earliest convenience. Thank you for your cooperation in completing this permitting action.

Sincerely,

D. Wayne Hedberg
Permit Supervisor
Minerals Regulatory Program

jb

Attachment: Review

O:\M049-Utah\M0490006-ClintonPit\Final\LMOAMDREV-08122003.doc

Utah!
Where ideas connect

INITIAL REVIEW OF NOTICE TO AMEND LARGE MINING OPERATIONS

Interpace Industries, Inc
Clinton Clay Pit

M/049/006
(August 12, 2003)

R647-4-105 - Maps, Drawings & Photographs

105.1 Topographic base map, boundaries, pre-act disturbance

Map BM-3 indicates that the Clinton Pit is presently permitted to disturb 32 acres; the permit presently indicates that the bonded disturbance at the site is 26 acres.

BM-3 shows a 2.75 acre clay stockpile area in the West pit area. An area immediately west of the West pit area is also designated a clay stockpile area on a May 1987 map and labeled as a post-1975 disturbance. This stockpile area should also be included in the estimated disturbed acreage in the West pit area. (DJ)

105.2 Reclamation Treatments map

Please identify the areas of the site to receive various reclamation treatments by shading; cross-hatching, or color-coding to identify which reclamation treatments will be applied. The map should contain a legend, which explains each of the proposed treatments. (DJ)

R647-4-106 - Operation Plan

106.2 Type of operations conducted, mining method, processing etc.

The plan states that the purpose for the crushing operation is for reclamation. Please state how the crushing operation will be used during reclamation. (DJ)

106.3 Estimated acreages disturbed, reclaimed, annually.

A total of 4.65 acres of roads are listed, please identify these roads on the reclamation treatments map. Roads that will remain unreclaimed after closure should also be identified and labeled accordingly. (DJ)

106.6 Plan for protecting & redepositing soils

The plan states in the West Area, soil will only be harvested from 3 acres of the total 25.15 acres disturbed. Please document that soil does not exist on the remaining acreage. If confirmed, a variance from topsoil salvaging, stockpiling, replacement and the 70% revegetation standard may also be appropriate to request. (DJ)

106.9 Location & size of ore, waste, tailings, ponds

The size of the clay stockpile in the West Area has increased from 2.75 to 3.25 acres. Map RT-1 still shows this area as 2.75 acres and the estimated acreage disturbed under section 106.6 also shows 2.75 acres for this stockpile. Please correct this deficiency. (DJ)

The plan states, "Waste pile (D) will be sloped south down to the pit floor", please state the final slope angle of this dump. (DJ)

Waste dump "B" does not appear on map RT-1. Please show this dump on RT-1, if applicable. (DJ)

R647-4-107 - Operation Practices

107.3 Erosion control & sediment control

Please identify the location of all drainage structures, berms, ponds, channels, etc. and the direction of flow on the appropriate figure. Figure BM-2 is unclear in how the watershed boundaries are defined to prevent runoff from leaving the site. The blue dashed line on Figure BM-2 represents the ephemeral drainage in the area. The plan states that a berm will be constructed; however, it is difficult to determine how drainage is prevented from leaving the site. Please make this clear on this figure. (TM)

R647-4-109 - Impact Assessment

109.4 Slope stability, erosion control, air quality, safety

The plan uses the term "angle of repose" to describe slope angles occurring at the site. The term "angle of repose" should only be used to reflect a slope lying at the true angle of repose which is normally 35 to 37 degrees. Please use this term in describing only these slopes. (DJ)

When resloping the waste dump in the West Area, the slopes will be left rough and small berms will be created across the contour to help prevent slope erosion. Please show on Map RT-1 where these berms will be placed and the number of these features. Describe in the plan how these berms will be constructed. (DJ)

R647-4-110 - Reclamation Plan

110.2 Roads, highwalls, slopes, drainages, pits, etc., reclaimed

Bullet A. The plan states reclamation of the upper east-west road will be accomplished by using a motor grader to bring the top edge down and the lower berm back on the road. The Division suggests the use of a trackhoe for this purpose. The trackhoe could perform each of these functions with more ease and could be used to roughen the surface of the road at the same time, eliminating the use of a dozer to rip the surface. (DJ)

The reclamation of the road that runs north south will be accomplished by smoothing the ground and seeding. The smooth ground will not contribute to revegetation success in this area. We suggest that because of Interpace's concern over the close proximity of the Kern River pipeline, that the grader be used to scarify this road before seeding. (DJ)

Bullet D. Mine Material Processing Area - The crusher and stockpile areas should be ripped a minimum of 24 inches deep to remove compaction.

The plan states that most of the material in this area is already comprised of sandy loam. In order to calculate a surety amount for this area, the amount of area that will require the

application of the sandy loam soil substitute will need to be estimated. Please provide the estimated acreage that will be affected. (DJ)

Bullet E. Waste Piles – The plan states “Some of overburden waste dump “A” will be moved northward by trackhoe and dump trucks into dump “B” to fill old clay mine cuts and to stabilize the foot of the south side of waste dump “A”. Please state the estimated amount of material that will need to be hauled to fill the old clay mine cuts. Also estimate the amount of material that will need to be moved south to stabilize the foot of the south side of dump “A” by the dozer. Please state in the plan what the stabilization of the dump “A” will require. (DJ)

Waste dump “C” is noted in the plan as being shown on map RT-1 outlined in green. On the map waste dump “C” is outlined in pink. Please correct the text or map accordingly. (DJ)

Bullet F. Stockpile pad – Ripping of stockpile areas should be a minimum 24” depth. (DJ)

110.5 Revegetation planting program

Bullet A In the West Area, the total area to be reclaimed is noted at 24 acres. Under the estimated acreage, the total acreage of this area is 25.15 acres. What portion of this area will not receive reclamation treatments? (DJ & LK)

R647-4-111 - Reclamation Practices

111.2 Reclamation of natural channels

The reclamation plan does not discuss re-establishment of natural drainages following mining, just that the surface will be left in a rough condition to prevent erosion. Will there be no need for an ephemeral drainage following mining? (TM)

R647-4-112 – Variance

No variances were requested in the plan.

R647-4-113 – Surety

East 40 acres

Section 2 – Backfilling, grading & contouring. This area only reflects work done by a dozer; the plan states a portion of this work would be done by a trackhoe and trucks. Because of the distance for the material to be moved, use of a dozer to accomplish all this work would be inefficient. The Division uses a cost/cubic yard based on the amount of material to be moved and costs vary depending on the equipment used.

Section 3 – The plan states that it is possible that a portion of this area would require the application of some of the sandy loam stockpile. For surety estimate purposes please estimate this additional area. The Division utilizes a cost/cubic yard figure to estimate these costs.

Section 4 – The Division cost data for this seeding and application of composted manure is shown as \$300/acre for composted manure and \$240/acre for seeding. This cost includes application.

Interpace's cost estimate includes a cost for the application of straw mulch, the plan does not state which of the areas will receive this treatment. Please include this detail in the plan and indicate these areas on the reclamation treatments map.

Manual labor for work at the site should be calculated at \$15/hour.

Section 7 – The cost of regrading and ripping of waste dump tops are shown as separate activities. The Division calculates this cost on a cost/acre basis

Section 10 – The Division calculates the costs for general site cleanup on a cost/acre basis.

Section 11 – A cost for the removal of a fuel tank and liner is shown on Interpace's surety estimate. The plan states that this material is owned by a third party and will be removed by them. Please state which option will be exercised at closure.

Section 12 – The cost for equipment mobilization is normally figured at \$2000/piece of equipment. Because of the proximity of this pit to a large population center, this cost may be reduced.

Middle 40 Acre

Section 2 – Backfilling, grading & contouring – The Division calculates the surety utilizing a cost/acre figure depending on the equipment being used.

Section 3 – Soil Redistribution – The Division calculates this cost at a cost/cubic yard being moved and the equipment used to move the soil.

Section 4 – See comments under section 4 of the East 40 acre review.

Section 7 – The Division calculates this activity using a cost/acre basis.

Section 8 – See comment under section 7 above.

Section 10 – Site clean up is based on a cost/acre basis. Also manual labor is based on a rate of \$15.00/hour.

Section 12 – See comments under Section 12 above.

Page 5
Aaron Hancock
Initial Review - Amendment
M/049/006
August 12, 2003

West Mining Area

Section 2 – See comment under section 2 - middle 40-acre comments.

Section 3 – See comment under section 3 – east 40-acre comments.

Section 4 – See comment under section 4 – east 40-acre comments.

Section 8 – Ripping costs are calculated using on a cost/acre basis.

Section 10 – see comments under section 10 - east 40-acre comments.

(Note: All comments concerning surety estimates by DJ)